Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for deleting one or more of a plurality of files, the

files including one or more chunks stored by a plurality of servers, the method comprising:

identifying a file to be deleted;

renaming the identified file;

permanently deleting the renamed file a predetermined amount of time after renaming the

identified file as part of a garbage collection process;

receiving, from the servers, information concerning chunks stored by the servers; and

identifying, to one of the servers, ones one of the chunks that do not exist possibly due to

the permanent deletion of the renamed file corresponds to the permanently deleted file.

2. (original) The method of claim 1, wherein the identifying a file to be deleted

includes:

receiving a deletion instruction regarding the file.

3. (original) The method of claim 2, further comprising:

receiving an un-deletion instruction regarding the file; and

restoring an original name to the file without permanently deleting the renamed file.

4. (original) The method of claim 1, wherein the predetermined amount of time is a

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user-configurable amount of time.

- 5. (original) The method of claim 4, wherein the user-configurable amount of time differs for different ones of the files.
- 6. (original) The method of claim 1, wherein metadata is associated with the files; and

wherein the permanently deleting the renamed file includes erasing the metadata associated with the renamed file.

- 7. (currently amended) The method of claim 1, further comprising:

 deleting, by the one of the servers, the ones one of the chunks that do not exist

 corresponds to the permanently deleted file.
 - 8. (currently amended) The method of claim 1, further comprising:
 identifying an orphaned ones of the chunks chunk, including:

 providing a mapping of file names to chunks, and
 identifying a chunk chunks, as the orphaned chunks chunk, that are is not reachable from any of the file names; and
 deleting the orphaned chunks chunk.
 - 9. (currently amended) The method of claim 8, wherein metadata is associated with

the chunks; and

wherein the deleting the orphaned ehunks chunk includes erasing the metadata associated with the orphaned ehunks chunk.

- 10. (currently amended) The method of claim 1, further comprising:
 maintaining versions of the chunks;
- identifying <u>a</u> stale ones of the chunks <u>chunk</u> based on the versions of the chunks; and deleting the stale chunks <u>chunk</u>.
- 11. (currently amended) The method of claim 10, wherein metadata is associated with the chunks; and

wherein the deleting the stale chunks <u>chunk</u> includes erasing the metadata associated with the stale chunks <u>chunk</u>.

12. (currently amended) A system for deleting a file that includes data stored by a plurality of servers, comprising:

means for identifying a file to be deleted;

means for logging deletion of the identified file;

means for permanently deleting the file during a garbage collection process that occurs after logging deletion of the identified file;

means for receiving, from the servers, information concerning data stored by the servers; and

means for identifying, to <u>one of</u> the servers, that of the data that does not exist possibly due to the permanent deletion of the renamed file corresponds to the file that was permanently deleted.

13. (currently amended) A file system, comprising:

a plurality of servers configured to store files as chunks, each of the files including one or more of the chunks; and

a master connected to the servers and configured to:

identify one of the files to be deleted,

rename the identified file,

permanently delete one or more chunks associated with the renamed file a predetermined amount of time after renaming the identified file as part of a garbage collection process,

receive, from the servers, information concerning chunks stored by the servers, and

identify, to <u>one of</u> the servers, <u>ones</u> <u>one</u> of the chunks that do not exist, the ones of the chunks including <u>corresponds to one of</u> the one or more permanently deleted chunks.

14. (currently amended) A method for deleting orphaned chunks of a plurality of chunks stored by a plurality of servers, the method comprising:

providing a mapping of file names to chunks;

identifying chunks, as orphaned chunks, that are not reachable from any of the file names;

deleting the orphaned chunks;

receiving, from the servers, information concerning chunks stored by the servers; and identifying, to <u>one of</u> the servers, <u>ones one</u> of the chunks that <u>are corresponds to one of</u> the deleted orphaned chunks.

15. (original) The method of claim 14, wherein metadata is associated with the chunks; and

wherein the deleting the orphaned chunks includes erasing the metadata associated with the orphaned chunks.

- 16. (currently amended) The method of claim 14, further comprising:

 deleting, by the one of the servers, the one of the chunks that corresponds to one of the orphaned chunks.
- 17. (original) The method of claim 14, wherein the deletion of the orphaned chunks occurs as part of a garbage collection process.
- 18. (currently amended) A system for deleting orphaned chunks of a plurality of chunks stored by a plurality of servers, comprising:

means for mapping file names to chunks;

means for identifying chunks, as orphaned chunks, that are not reachable from any of the file names;

means for deleting the orphaned chunks as part of a garbage collection process;

means for receiving, from the servers, information concerning chunks stored by the

servers; and

means for identifying, to <u>one of</u> the servers, <u>ones</u> one of the chunks that are <u>corresponds</u>

to one of the deleted orphaned chunks.

19. (currently amended) A file system, comprising:

a plurality of servers configured to store files as chunks, each of the files including one or

more of the chunks; and

a master connected to the servers and configured to:

map file names to chunks,

identify chunks, as orphaned chunks, that are not reachable from any of the file

names,

delete the orphaned chunks,

receive, from the servers, information concerning chunks stored by the servers,

and

identify, to one of the servers, ones one of the chunks that are corresponds to one

of the deleted orphaned chunks.

20. (currently amended) A method for deleting stale replicas of chunks, the replicas

being stored by a plurality of servers, the method comprising:

associating version information with replicas of chunks;

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identifying stale replicas based on the associated version information;

deleting the stale replicas;

receiving, from the servers, information concerning replicas stored by the servers; and

identifying, to one of the servers, ones one of the replicas that are corresponds to one of

the deleted stale replicas.

21. (currently amended) The method of claim 20, wherein the version information for

one of the replicas is updated each time a lease is granted to for the replica one of the replicas.

22. (currently amended) The method of claim 20, further comprising:

deleting, by the one of the servers, the one of the replicas that corresponds to one of the

stale replicas.

23. (original) The method of claim 20, wherein the deletion of the stale replicas

occurs as part of a garbage collection process.

24. (currently amended) A system for deleting stale replicas of chunks, the replicas

being stored by a plurality of servers, the system comprising:

means for generating version information for replicas of chunks;

means for identifying stale replicas based on the generated version information;

means for deleting the stale replicas as part of a garbage collection process;

means for receiving, from the servers, information concerning replicas stored by the

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servers; and

means for identifying, to <u>one of</u> the servers, <u>ones</u> <u>one</u> of the replicas that <u>are corresponds</u> <u>to one of the deleted</u> stale replicas.

25. (currently amended) A file system that stores files as chunks, comprising:

a plurality of servers configured to store files as chunks; and

a master connected to the servers and configured to:

associate version information with the chunks,

identify stale chunks based on the associated version information,

delete the stale chunks,

receive, from the servers, information concerning replicas stored by the servers,

and

identify, to <u>one of</u> the servers, <u>ones one</u> of the replicas that are stale replicas corresponds to one of the deleted stale chunks.